

Abstract

Solid drill bit for machine tools

The invention relates to a solid drill bit for machine tools. The solid drill bit has a drill bit body (10) and two indexable inserts (20, 22) which are arranged at a radial distance from one another in a respective insert seat (16, 18) of the drill bit body (10) in the region of a chip flute (12, 14). The indexable inserts (20, 22) have an essentially quadratic contour. They project with their front-end main cutting edges (30, 34) axially beyond the drill bit body (10) and overlap one another radially in their active region. The radially outer indexable insert (22), with its outer insert corner (36) and with its adjoining secondary cutting edges (38) perpendicular to the relevant main cutting edge (34), projects radially beyond the circumference of the drill bit body. In order to permit burr-free through-drilling, the front-end main cutting edge (34) of the outer insert (22) is subdivided in its longitudinal extent into a radially inner working section (50) and a rectilinear peeling section (52) adjoining said working section (50) on the outside and extending up to the outer insert corner (36), said sections (50 and 52) enclosing a setting angle of 95° to 120° with one another. In the fitted state, the peeling section (52), toward the outer insert corner (36), is accordingly set at a positive setting angle of 72° to 87° relative to the end face of the drill bit body.

(Fig. 3)